

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

**U.S. DEPARTMENT OF
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IN MEMORIAM

Dr. Arnold Lazarow, Editor of *Diabetes Literature Index*, died suddenly on Wednesday, June 25, 1975. It was through his inspiration, guidance, and un-failing efforts that this publication was initiated. In 1958 the *Diabetes Literature Index* was brought about through the cooperative efforts of two divisions of National Institutes of Health (National Institute of Arthritis, Metabolism, and Digestive Diseases and the National Library of Medicine), a professional society (American Diabetes Association), three universities (University of Minnesota, University of Rochester, and Case Western Reserve University) and numerous individual scientists through the endeavors of Dr. Arnold Lazarow.

Through the years he has given unstintingly of himself in directing and guiding the Index, as well as prodding advances in the entire field of information storage and retrieval and document handling. He will be greatly missed.



DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the
National Institute of Arthritis, Metabolism, and Digestive Diseases

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Order of Arrangement

Arrangement of hierarchy
MEDLARS terms included in hierarchy
Hierarchical Subject Index
Keyword Index
Author Index

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical as-

pects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within

the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

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PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES	THIOURACIL	2.C.2 THYROID ANTAGONISTS
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES	THIOUREA	2.C.2 THYROID ANTAGONISTS
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE	THYROID ANTAGONISTS	2.C.3 THYROID DISORDERS
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROID CRISIS	2.C THYROID GLAND
PREDNISON	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROID GLAND	2.C.1 THYROID HORMONES
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES	THYROID HORMONES	2.C.3 THYROID DISORDERS
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES	THYROIDITIS	2.C.3 THYROID DISORDERS
PREGNANEDIOL	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROIDITIS, LYMPHOMATOUS	2.C.1 THYROID HORMONES
PREGNANETRIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYRONINE	2.E.1.3 THYROTROPIN
	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROTROPIN	2.E.4 PITUITARY HORMONE RELEASING FACTORS
	2.B.2.1.3 OTHER GLUCOCORTICOIDS	THYROTROPIN RELEASING HORMONE	2.C.1 THYROID HORMONES
	2.F.3.3.2 PROGESTATIONAL HORMONES	THYROXINE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES	TOLAZAMIDE	1.F.9.4.2 TOLBUTAMIDE
PROGESTERONE	1.C.1.4 INSULIN, BIOSYNTHESIS	TOLBUTAMIDE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PROINSULIN	2.E.1.4 GONADOTROPINS, PITUITARY	TRIAMCINOLONE	2.C.1 THYROID HORMONES
PROLACTIN	2.C.2 THYROID ANTAGONISTS	TRIODOXYTHYRONINE	2.F.4 GONADAL DISORDERS
PROPYLTHIOURACIL	2.G.2.2 PROSTAGLANDINS	TURNERS SYNDROME	2.E.2 PITUITARY DISORDERS, POSTERIOR
PROSTAGLANDINS	2.F.4 GONADAL DISORDERS	VASOPRESSIN	2.F.4 GONADAL DISORDERS
PUBERTY, PRECOCIOUS		VIRILISM	2.B.5 ADRENAL DISORDERS
		WATERHOUSE-FRIDERICHSEN SYNDROME	



SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

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- 1.F.10.2 ALLOXAN DIABETES**
- 1.F.10.2.1 ALLOXAN DIABETES, BLOOD**
- [EFFECT OF COLD STRESS ON TISSUE NOREPINEPHRINE, PLASMA NEFA, GLUCOSE AND COLONIC TEMPERATURE IN ALLOXAN DIABETIC RATS]** Kohashi Y, Oka Y *Folia Pharmacol Jpn* 69: 239-48, Mar 73 (Jpn)
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- 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY**
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- 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY**
- 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM**
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- 1.F.12 DIABETES, HISTORY**

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2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.2 ADRENAL CORTEX HORMONES

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EXPERIMENTS; BRAIN CHEMISTRY; BRAIN (enzymology); CALCIUM (metabolism); CATIONS, DIVALENT; CATIONS, MONOVALENT; CATTLE; DRUG INTERACTIONS; ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); GUINEA PIGS; HEXOKINASE (metabolism); IN VITRO; INSULIN (pharmacodynamics); LIVER (enzymology); MAGNESIUM (metabolism); MALE; MUSCLES (enzymology); PHOSPHATES (metabolism); POTASSIUM (metabolism); RABBITS; RATS; SWINE; TIME FACTORS.

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ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DOGS; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; INSULIN (blood); KETONE BODIES (blood); LACTATES (blood); MALE; PERFUSION; PYRUVATES (blood); TIME FACTORS; TRIGLYCERIDES (pharmacodynamics, blood).

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CONCENTRATION; LACTATES (blood); OXYGEN (blood); PARTIAL PRESSURE; PIGEONS; POTASSIUM (blood); SEASONS; SODIUM (blood); SPECIES SPECIFICITY; TIME FACTORS; UREA (blood).

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ADULT; AGED; CARDIOVASCULAR DISEASES (occurrence, etiology); CATARACT (occurrence, etiology); CENTRAL NERVOUS SYSTEM DISEASES (occurrence, etiology); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (occurrence); DIABETIC NEUROPATHIES (occurrence); DIABETIC RETINOPATHY (occurrence); ENGLISH ABSTRACT; FEMALE; HEPATITIS (occurrence, etiology); HUMAN; MALE; MIDDLE AGE; NEURITIS (occurrence).

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ANIMAL EXPERIMENTS; ANIMALS, NEWBORN; BLOOD SUGAR (analysis); FETUS (analysis); GESTATIONAL AGE; GLUCAGON (blood); INSULIN (blood); PANCREAS (embryology); PREGNANCY.

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ALANINE (blood); AMINO ACIDS (blood, pharmacodynamics); ANTIGENS (analysis); BLOOD PROTEINS (analysis); CHILD, PRESCHOOL; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INFANT; INSULIN (secretion, immunology); KWASHIORKOR (metabolism, blood); MILK; PROTEIN-CALORIE MALNUTRITION (blood,

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ARTERIAL OCCLUSIVE DISEASES (pathology, etiology); ARTERIOSCLEROSIS (complications, metabolism); ARTERITIS (complications, pathology); ATHEROMA (complications); CHOLESTEROL (metabolism); COLLAGEN (metabolism); CONNECTIVE TISSUE (metabolism); DIABETIC ANGIOPATHIES (pathology); EMBOLISM (physiopathology, etiology); GRANULATION TISSUE; HISTOCYTOCHEMISTRY; HUMAN; MALE; MICROSCOPY, ELECTRON; MIDDLE AGE; SYNDROME; TEMPORAL ARTERITIS (pathology); THROMBOANGITIS OBLITERANS (pathology); THROMBOSIS (pathology).

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ACIDOSIS (drug therapy); ACIDOSIS, DIABETIC (drug therapy); BICARBONATES (therapeutic use, administration & dosage, adverse effects); DRUG THERAPY, COMBINATION; HUMAN; POTASSIUM (therapeutic use, administration & dosage, adverse effects).

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COMPETITIVE; CLOMIPHENE
(pharmacodynamics); CYTOPLASM
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(pharmacodynamics); ESTROGENS (metabolism,
antagonists & inhibitors); FEMALE;
NAFOXIDINE (pharmacodynamics); ORGAN
WEIGHT; PROTEINS (metabolism);
PYRROLIDINES (pharmacodynamics); RATS;
RECEPTORS, HORMONE (drug effects);
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PERMEABILITY; CELL MEMBRANE
(metabolism); CYTOPLASM (metabolism);
EPIDIDYMIS (metabolism); GLUCOSE
(metabolism); INSULIN (physiology); LIPIDS
(metabolism); MANNITOL (pharmacodynamics);
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ALKALINE PHOSPHATASE (blood); ANIMAL
EXPERIMENTS; ASPARTATE
AMINOTRANSFERASE (blood); BLOOD
PROTEIN ELECTROPHORESIS; BLOOD
PROTEINS (analysis); BLOOD SUGAR; BLOOD
UREA NITROGEN; CHOLESTEROL (blood);
CREATINE KINASE (blood); ELECTROLYTES
(blood); HORSE DISEASES (diagnosis);
HORSES; LACTATE DEHYDROGENASE
ISOENZYMES (blood); LACTATE
DEHYDROGENASE (blood); SORBITOL; URIC
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AGED; BLOOD SUGAR (analysis); DIABETES
MELLITUS (drug therapy); DIABETES
MELLITUS, JUVENILE (drug therapy);
EVALUATION STUDIES; GLYCOSURIA;
HUMAN; INJECTIONS, JET (adverse effects);
INSULIN (therapeutic use, blood);
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DIABETES MELLITUS (familial & genetic,
etiology); DISEASE MODELS, ANIMAL;
FEMALE; HYPERINSULINISM (complications);
HYPOGLYCEMIA (etiology); INSULIN
RESISTANCE; MALE; MICE, INBRED
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SOMATOTROPIN (blood); THYROID
DISEASES (blood); THYROID NEOPLASMS
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EFFECT OF ORAL AND INTRAMUSCULAR ROUTES OF ADMINISTRATION ON SERUM CHLORDIAZEPOXIDE LEVELS AND THE PREDICTION OF THESE LEVELS FROM PREDRUG FASTING SERUM GLUCOSE CONCENTRATIONS Gottschalk LA, Biener R, Dinovo EC *Res Commun Chem Pathol Pharmacol* 8: 697-702, Aug 74 (Eng)

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ALLOXAN DIABETES (blood, complications); **ANIMAL EXPERIMENTS**; **ARGININE** (pharmacodynamics); **DIABETES MELLITUS** (blood, complications); **DOGS**; **GLUCAGON** (physiology); **HYPERGLYCEMIA** (etiology); **INSULIN** (pharmacodynamics); **OLIGOPEPTIDES** (pharmacodynamics); **PANCREATICTOMY**; **SOMATOTROPIN RELEASING HORMONE** (antagonists & inhibitors); **UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.**

Dobozy A

[GOUGEROT-BLUM DISEASE DUE TO HYPERSENSITIVITY TO CARBUTAMIDE] Dobozy A, Hunyadi J, Husz S *Z Hautkr* 49: 1009-12, 1 Dec 74 (Ger)

AGED; **ANTIBODY FORMATION**; **CARBUTAMIDE** (adverse effects); **DERMATITIS** (chemically induced, immunology); **DRUG HYPERSENSITIVITY** (etiology, immunology); **ENGLISH ABSTRACT**; **FEMALE**; **HUMAN**; **LYMPHOCYTE TRANSFORMATION**; **PURPURA** (chemically induced, immunology); **SKIN TESTS**; **SYNDROME**.

Dobson JG Jr

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TESTS; **HALF-LIFE**; **IMMUNE SERUMS**; **IMMUNOASSAY**; **IMMUNOCHEMISTRY**; **ISOELECTRIC FOCUSING**; **ISOENZYMES** (metabolism, isolation & purification); **KINETICS**; **MALATE DEHYDROGENASE** (metabolism, isolation & purification); **MALE**; **MITOCHONDRIA**; **LIVER** (enzymology); **MITOCHONDRIA**; **MUSCLE** (enzymology); **MYOCARDIUM** (enzymology); **PRECIPITIN TESTS**; **RABBITS**; **SHEEP** (immunology); **STARVATION** (enzymology).

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Donlan CJ

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ABSCCESS (radiography); **AGED**; **APPENDIX**; **CASE REPORT**; **DIABETES MELLITUS** (complications); **DIAGNOSIS**, **DIFFERENTIAL**; **EMPHYSEMA** (radiography); **GALLBLADDER DISEASES** (radiography); **HUMAN**; **KIDNEY DISEASES** (radiography); **MALE**; **MUSCULAR DISEASES** (radiography); **VOMITING** (complications).

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[BIOLOGICAL STUDY OF MENIERES DISEASE AND MENIERES SYNDROME: PRELIMINARY NOTE] Doutremepuich C *Rev Laryngol Otol Rhinol (Bord)* 95: 43-8, Jan-Feb 74 (Fre)
BLOOD COAGULATION; **BLOOD SUGAR**; **ENGLISH ABSTRACT**; **HUMAN**; **LIPIDS** (blood); **MENIERES DISEASE** (therapy, blood); **WATER-ELECTROLYTE BALANCE**.

Draf W

[NECROTIZING EXTERNAL OTITIS.—A CLINICAL AND THERAPEUTIC STUDY (AUTHORS TRANSL.) Draf W, Scheifele J *HNO* 22: 365-7, Dec 74 (Ger)

AGED; ANTI-BIOTICS (therapeutic use); DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; EAR NEOPLASMS (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; NECROSIS (complications); OSTEOMYELITIS (prevention & control); OTITIS EXTERNA (complications, microbiology, diagnosis, surgery, drug therapy); PSEUDOMONAS AERUGINOSA (isolation & purification).

Dror Y

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SUBSTRATE-CARBON OXIDATION BY ISOLATED RAT GLOMERULI IN AMINONUCLEOSIDE NEPHROSIS. Kaplan BS, Renaud L, Drummond KN *Kidney Int* 6: 170-6, Sep 74 (Eng)

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LACK OF DIETARY REGULATION OF JEJUNAL GLYCOLYTIC ENZYMES AND DISACCHARIDASES IN OBESITY: THE ROLE OF INSULIN. Dubois R, Gotlin RW, Rodgerson DO *Gastroenterology* 68: 461-5, Mar 75 (Eng)

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Dudenko NV

[CONTENT OF IMMUNOREACTIVE INSULIN IN THE BLOOD PLASMA OF PERSONS OF DIFFERENT AGES (WITHOUT CARBOHYDRATE METABOLIC DISORDERS) AND THE EFFECT ON THIS INDEX OF A GLUCOSE LOAD] Livergant IuE, Dudenko NV, Krupchinskaia KI, Motova LP, Poltorak VV *Probl Endokrinol (Mosk)* 20: 3-7, Jul-Aug 74 (Rus)

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ECDYSTERONE-INDUCED PROTEIN SYNTHESIS IN VITRO. Ruh MF, Ruh TS, DeWert W, Duenas V *J Insect Physiol* 20: 1729-36, Sep 74 (Eng)

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AMNIOCENTESIS; AMNIOTIC FLUID (analysis); APGAR SCORE; CESAREAN SECTION; CHROMATOGRAPHY, THIN LAYER; FEMALE; FETAL DISEASES (diagnosis); HUMAN; HYALINE MEMBRANE DISEASE (diagnosis, mortality, occurrence); HYDRAMNIOS (complications); INFANT, NEWBORN; LABOR; LECITHINS (analysis); LUNG (embryology); MATERNAL-FETAL EXCHANGE; PREGNANCY IN DIABETES (complications); PREGNANCY COMPLICATIONS, HEMATOLOGIC (blood); PREGNANCY TOXEMIAS (complications); PREGNANCY; PREGNANCY, PROLONGED; PRENATAL DIAGNOSIS; PROGNOSIS;

RESPIRATORY DISTRESS SYNDROME (diagnosis); RETROSPECTIVE STUDIES; RH FACTORS; SPECIMEN HANDLING; SPHINGOMYELINS (analysis); VAGINA.

Dulin WE

STUDIES IN THE DIABETIC CHINESE HAMSTER: LIGHT MICROSCOPY AND AUTORADIOGRAPHY OF PANCREATIC ISLETS. Like AA, Gerritsen GC, Dulin WE, Gaudreau P *Diabetologia* 10 suppl: 501-8, Nov 74 (Eng)

STUDIES IN THE DIABETIC CHINESE HAMSTER: ELECTRON MICROSCOPY OF PANCREATIC ISLETS. Like AA, Gerritsen GC, Dulin WE, Gaudreau P *Diabetologia* 10 suppl: 509-20, Nov 74 (Eng)

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MORPHOLOGIC ABNORMALITIES OBSERVED IN RETINA, PANCREAS AND KIDNEY OF DIABETIC CHINESE HAMSTERS. Soret MG, Dulin WE, Mathews J, Gerritsen GC *Diabetologia* 10 suppl: 567-79, Nov 74 (Eng)

MORPHOLOGIC CHANGES IN THE AORTA OF THE DIABETIC CHINESE HAMSTER. McCombs HL, Gerritsen GC, Dulin WE, Chobanian AV *Diabetologia* 10 suppl: 601-6, Nov 74 (Eng)

FURTHER CHARACTERIZATION OF DIABETES-LIKE ABNORMALITIES IN THE T-KK MOUSE. Wyse BM, Dulin WE *Diabetologia* 10 suppl: 617-23, Nov 74 (Eng)

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ACTION OF THYROTROPIN ON PHOSPHATE INCORPORATION INTO THYROID PROTEINS IN VITRO. Lamy F, Dumont JE *Eur J Biochem* 45: 171-9, 1 Jun 74 (Eng)

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[ARTERIAL HYPERTENSION IN THE YOUNG ADULT. SYSTEMATIC EXPLORATION OF 100,000 YOUNG PEOPLE] Duriez R, Halpert J, Bressac F, Laurens A, Casanova B, Ribot C, Roue R, Verillaud JM, Hiltbrand C *Ann Med Interne (Paris)* 125: 725-30, Oct 74 (Fre)

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PERSONNEL; STATISTICS; URIC ACID (blood).

Dykes MH

ASCORBIC ACID AND THE COMMON COLD. EVALUATION OF ITS EFFICACY AND TOXICITY. Dykes MH, Meier P *JAMA* 231: 1073-9, 10 Mar 75 (Eng)

ADMINISTRATION, ORAL; ANIMAL EXPERIMENTS; ASCORBIC ACID (therapeutic use, administration & dosage, adverse effects); BIOFLAVONOIDS (therapeutic use); CLINICAL RESEARCH; COMMON COLD (prevention & control, drug therapy); DRUG INTERACTIONS; FETUS (drug effects); GASTROINTESTINAL SYSTEM (drug effects); GUINEA PIGS; HUMAN; HYPERGLYCEMIA (chemically induced); INJECTIONS, INTRAVENOUS; INJECTIONS, SUBCUTANEOUS; MALE; MATERNAL-FETAL EXCHANGE; PLACEBOES; PREGNANCY; RATS; TIME FACTORS; URINARY CALCULI (chemically induced).

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[SOME CHANGES IN LIPID METABOLISM AND THE STATE OF THE VASCULAR WALL IN RATS WITH A PROLONGED COURSE OF ALLOXAN DIABETES] Nasledova ID, Sokoloverova IM, Dzeranova Nla *Probl Endokrinol (Mosk)* 20: 59-63, Jul-Aug 74 (Rus)

Dziggel H

[NECROSIS ET NECROBIOSIS LIPOIDICA. DIABETES MELLITUS. HYPERTENSION] Dziggel H *Z Hautkr* 49: 1017-9, 1 Dec 74 (Ger)

DIABETES MELLITUS (complications, pathology); FEMALE; HUMAN; HYPERTENSION (etiology, pathology); MIDDLE AGE; NECROBIOSIS LIPOIDICA (etiology, pathology); NECROSIS (etiology).

Dzurik R

[INHIBITION OF RED BLOOD CELL GLUCOSE UTILIZATION IN UREMIA] Gajdos M, Dzurik R *Vnit Lek* 20: 974-82, Oct 74 (Slo)

Dzvonkevich ND

[THE EFFECT OF TRICARBOXYLIC ACID CYCLE CARBOXYLINE, ACETATE AND ACIDS ON KETOGENESIS IN RABBITS WITH ALLOXAN DIABETES] Dzvonkevich ND, Gulyi MF *Ukr Biokhim Zh* 46: 768-71, Nov-Dec 74 (Ukr)

ACETATES (pharmacodynamics); ALLOXAN DIABETES (metabolism, drug therapy); ANIMAL EXPERIMENTS; CITRATES (pharmacodynamics); DEPRESSION, CHEMICAL; DRUG INTERACTIONS; ENGLISH ABSTRACT; FEMALE; KETONE BODIES (biosynthesis, analysis); KETOSIS, DIABETIC (etiology); KREBS CYCLE; MALE; RABBITS; SALTS (pharmacodynamics); SODIUM (pharmacodynamics); SUCCINATES (pharmacodynamics); TIME FACTORS.

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RELATIONSHIPS BETWEEN THE STRUCTURE AND ACTIVITIES OF CONCANAVALIN A. Reeke GN Jr, Becker JW, Cunningham BA, Gunther GR, Wang JL, Edelman GM *Ann NY Acad Sci* 234: 369-82, 1974 (Eng)

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GLUCOSE TOLERANCE IN NEWBORN INFANTS OF HEALTHY MOTHERS: ITS RELATIONSHIP TO THE MOTHERS INSULIN RESPONSE TO GLUCOSE INFUSION. Edstrom K, Cerasi E, Luft R, Persson B, Thalme B *Acta Endocrinol (Kbh)* 78: 44-53, Jan 75 (Eng)

BIRTH WEIGHT; BLOOD SUGAR; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INFANT, NEWBORN; INJECTIONS, INTRAVENOUS; INSULIN (blood); PREGNANCY; PREGNANCY, THIRD TRIMESTER.

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Eggen DA

REGRESSION OF DIET-INDUCED FATTY STREAKS IN RHESUS MONKEYS. Eggen DA, Strong JP, Newman WP 3d, Catsulis C, Malcom GT, Kokatnur MG *Lab Invest* 31: 294-301, Sep 74 (Eng)

ANIMAL EXPERIMENTS; AORTA, ABDOMINAL (pathology); AORTA, THORACIC (pathology); AUTOPSY; BODY WEIGHT; BRACHIAL ARTERY (pathology); CAROTID ARTERIES (pathology); CHOLESTEROL (blood); CHOLESTEROL, DIETARY; COLLAGEN (analysis); COMPARATIVE STUDY; CORONARY VESSELS (pathology); DIET, ATHEROGENIC; FATTY STREAK, ARTERIAL (etiology, pathology); MALE; MICROSCOPY, ELECTRON; REMISSION; RHESUS MONKEYS; STAINS AND STAINING; TRIGLYCERIDES (blood).

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ON THE MECHANISM OF UPTAKE OF IRON BY RETICULOCYTES. Egyed A *Acta Biochim Biophys Acad Sci Hung* 9: 43-52, 1974 (Eng)

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Ehrengruber H

[PREVALENCE OF LATENT DIABETES IN A JUVENILE POPULATION (DIAGNOSIS, METHODOLOGY AND INTERPRETATION) (AUTHORS TRANSL.) Teuscher A, Auckenthaler R, Ehrengruber H, Gasser M, Husler J, Richterich R *Klin Wochenschr* 52: 881-7, 15 Sep 74 (Ger)

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AEROBACTER (isolation & purification); ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); BLOOD (microbiology); COBALT RADIOISOTOPES; ESCHERICHIA COLI (isolation & purification); LACTATE DEHYDROGENASE (blood); LEUKOCYTE COUNT; LYMPH NODES (microbiology); MALE; MUSCLES (microbiology); RADIATION INJURIES, EXPERIMENTAL (blood, microbiology); SEPTICEMIA (etiology, blood, microbiology); STAPHYLOCOCCUS (isolation & purification); STREPTOCOCCUS (isolation & purification); SWINE.

Eisenberg RC

GLUCOSE UPTAKE AND PHOSPHORYLATION IN PSEUDOMONAS FLUORESCENS. Eisenberg RC, Butters SJ, Quay SC, Friedman SB *J Bacteriol* 120: 147-53, Oct 74 (Eng)

AEROBIOLOGICAL TRANSPORT, ACTIVE; CARBON RADIOISOTOPES; CELL-FREE SYSTEM; COMPARATIVE STUDY; ENZYME INDUCTION; GLUCOKINASE (metabolism); GLUCONATES (biosynthesis);

Diabetes Literature—Author Index

GLUCOSE OXIDASE (metabolism); GLUCOSE (metabolism); GLUCOSEPHOSPHATES (biosynthesis); MUTATION; OXIDATIVE PHOSPHORYLATION; PSEUDOMONAS FLUORESCENS (metabolism, enzymology).

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INSULIN CONTROLLING CALCIUM DISTRIBUTION IN MUSCLE AND FAT CELLS. Clausen T, Elbrink J, Martin BR *Acta Endocrinol [Suppl] (Kbh)* 77: 137-43, 1974 (Eng)

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[INHIBITION BY L-DOPA OF THE HYPOTHALAMO-HYPOPHYSEO-ADRENOCORTICAL RESPONSE TO INSULIN HYPOGLYCEMIA IN MAN] Balestreri R, Bertolini S, Elicio N, Rotella A *Boll Soc Ital Biol Sper* 50: 838-44, 30 Jul 74 (Ita)

[STUDY OF THE ACTION OF TOLBUTAMIDE ON THE HYPOTHALAMO-HYPOPHYSEAL-ADRENOCORTICAL SYSTEM IN NORMAL AND OBESE SUBJECTS] Balestreri R, Bertolini S, Elicio N *Minerva Med* 66: suppl 193-202, 24 Jan 75 (Ita)

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PLASMA ADENOSINE 3:5-CYCLIC MONOPHOSPHATE RESPONSE TO GLUCAGON IN THYROID DISEASE. Elkeles RS, Lazarus JH, Siddle K, Campbell AK *Clin Sci Mol Med* 48: 27-31, Jan 75 (Eng)

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QUANTITATIVE HISTOCHEMISTRY OF GLUCOSE METABOLISM IN THE ISLETS OF LANGERHANS. Matschinsky FM, Ellerman JE, Landgraf, krzanowski J, Kotler-Brajtburg J, Fertel R *Curr Probl Clin Biochem* 3: 143-82, 1971 (Eng) [45]

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ANIMAL EXPERIMENTS; BICARBONATES (metabolism); BLOOD FLOW VELOCITY; BLOOD SUGAR (metabolism); CHOLECYSTOKININ (pharmacodynamics); CULTURE MEDIA; DOGS; ERYTHROCYTES; HEMODYNAMICS; HYDROGEN-ION CONCENTRATION; INSULIN (secretion); OXYGEN CONSUMPTION; PANCREAS (physiology, metabolism, blood supply, drug effects); PANCREATIC JUICE (secretion); PARTIAL PRESSURE; PERFUSION (instrumentation); REGIONAL BLOOD FLOW; SECRETIN (pharmacodynamics); SECRETORY RATE (drug effects); STIMULATION, CHEMICAL; VASCULAR RESISTANCE.

Emmrich P

[INFLUENCE OF HORMONE-INDUCED OVERGESTATION ON THE MORPHOLOGY OF THE RABBIT PLACENTA] Emmrich P, Willgerodt H, Keller E, Theile H, Buhndel P *Acta Biol Med Ger* 32: 353-62, 1974 (Ger)

ANIMAL EXPERIMENTS; CHLORMADINONE (pharmacodynamics, administration & dosage); DISEASE MODELS, ANIMAL; ENGLISH ABSTRACT; FEMALE; GESTATIONAL AGE; GLYCOGEN (metabolism); PLACENTA DISORDERS (chemically induced); PLACENTA (cytology, drug effects, metabolism);

PREGNANCY; PREGNANCY, PROLONGED (drug effects); RABBITS; STAINS AND STAINING.

[MORBID ANATOMICAL FINDINGS IN THE PLACENTAE OF LOW-WEIGHT NEONATES. EXAMINATION OF 155 PLACENTAE OF CLASSIFIED TROPIC AND HYPOPLASTIC NEONATES] Emmrich P *Z Geburtshilfe Perinatol* 178: 393-401, Oct 74 (Ger)

BIRTH WEIGHT; ENGLISH ABSTRACT; FEMALE; FETAL DEATH; FETAL DISEASES (pathology); GESTATIONAL AGE; HUMAN; HYPERTENSION (pathology); INFANT, NEWBORN; INFANT, PREMATURE; PLACENTA DISORDERS (pathology); PLACENTA (pathology); PREGNANCY IN DIABETES; PREGNANCY COMPLICATIONS, CARDIOVASCULAR (pathology); PREGNANCY COMPLICATIONS, INFECTIOUS (pathology); PREGNANCY TOXEMIAS (pathology); PREGNANCY; UMBILICAL ARTERIES (abnormalities); UMBILICAL VEINS (abnormalities).

Emmrich R

[DIFFERENTIAL DIAGNOSIS OF ARTERIOSCLEROSIS OBLITERANS AND THROMBOANGITIS OBLITERANS] Emmrich R *Z Gesamte Inn Med* 28: 389-94, 1 Jul 73 (Ger)

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ANIMAL EXPERIMENTS; ANTIBODY FORMATION (drug effects); ANTIGENIC DETERMINANTS; AUTOANTIBODIES (analysis); CATTLE; DIABETES MELLITUS (immunology); DOSE-RESPONSE RELATIONSHIP, DRUG; FISHES (immunology);

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GENETICS, BIOCHEMICAL; GUINEA PIGS; HORSES (immunology); HUMAN; IMMUNITY; IMMUNITY, CELLULAR; IMMUNIZATION; IMMUNOLOGICAL TECHNIQS; IMMUNOSUPPRESSION; INSULIN ANTIBODIES (analysis, classification); INSULIN (immunology, adverse effects, pharmacodynamics); MATERNAL-FETAL EXCHANGE; MICE; MOLECULAR CONFORMATION; PEPTIDES (immunology); PROINSULIN (immunology); RABBITS; RATS; REVIEW; SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP; TIME FACTORS.

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GEL; ENGLISH ABSTRACT; GERMANY, WEST; HYDROGEN-ION CONCENTRATION; INSULIN (standards, isolation & purification, analysis); INSULIN, LENTE (standards); STERILIZATION.

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EFFECTS OF HYSTERECTOMY ON MILK SECRETION AND SERUM LEVELS OF PROLACTIN, GROWTH HORMONE, ESTROGEN, AND PROGESTERONE IN RHESUS MONKEYS WITH HORMONE-INDUCED UTERINE

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THE LIPOLYTIC SYSTEM IN ADIPOSE TISSUE OF TORONTO-KK AND C57BL/KSJ DIABETIC MICE. ADENYLATE CYCLASE, PHOSPHODIESTERASE AND PROTEIN KINASE ACTIVITIES. Kupiecki FP, Adams LD *Diabetologia* 10 suppl: 633-7, Nov 74 (Eng)

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Lang CM

dosage); ESOPHAGEAL NEOPLASMS (surgery); HOSPITAL DEPARTMENTS; HUMAN; INSULIN (administration & dosage); LIVER CIRRHOSIS (surgery); OSMOLAR CONCENTRATION; PANCREATITIS (surgery); PARENTERAL FEEDING; POSTOPERATIVE CARE; POSTOPERATIVE COMPLICATIONS (therapy, metabolism); STOMACH NEOPLASMS (surgery); UREA (administration & dosage); WATER-ELECTROLYTE BALANCE.

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CHOLESTEROL (analysis); CROP, AVIAN (anatomy & histology); DIET; ENERGY METABOLISM; FASTING; FATTY ACIDS, NONESTERIFIED (analysis); GIZZARD (anatomy & histology); GROWTH; INTESTINES (anatomy & histology); KIDNEY (analysis); LIPOPROTEINS, VLDL (analysis); LIVER (anatomy & histology, analysis); MALE; ORGAN WEIGHT; PROVENTRICULUS (anatomy & histology); SERUM ALBUMIN (analysis); TRIGLYCERIDES (analysis); TUBE FEEDING.

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